

Patent Abstracts of Japan

PUBLICATION NUMBER : 05215929
PUBLICATION DATE : 27-08-93

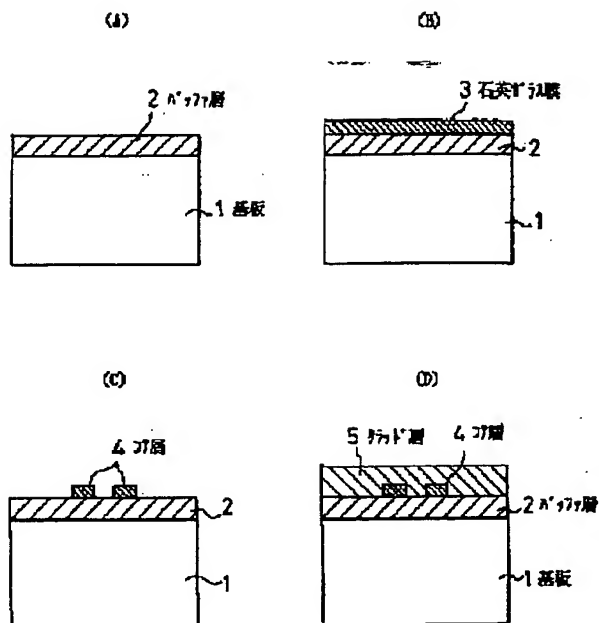
APPLICATION DATE : 03-02-92
APPLICATION NUMBER : 04017229

APPLICANT : HITACHI CABLE LTD;

INVENTOR : OKANO HIROAKI;

INT.CL. : G02B 6/12 C03B 19/01 C03B 19/14

TITLE : MANUFACTURE OF GLASS
WAVEGUIDE



ABSTRACT : PURPOSE: To produce a glass waveguide which is small in transmission loss and has high accuracy in the shape of the waveguide.

CONSTITUTION: A buffer layer 2 of quartz glass in which fluorine is doped by deposition of fine particles of glass and formation of a transparent glass, is formed on a substrate 1. A pure quartz glass film 3 is formed on the buffer layer 2 by electron beam vapor deposition or ion sputtering. An excess portion is removed from the quartz glass film 3 to form a core layer 4. The clad layer 5 of quartz glass in which fluorine is doped by covering the buffer layer 2 and the core layer 4, is formed by the deposition of fine particles of glass and the formation of transparent glass.

COPYRIGHT: (C)1993,JPO&Japio